

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

We claim:

1-3. (cancelled)

4. (currently amended) A method of manipulating neuronal ion channels, comprising: transfecting a cell that expresses an mRNA encoding a Kv3.4 protein with a vector encoding an siRNA directed against said mRNA encoding a Kv3.4 protein, wherein said siRNA is complementary to ~~a portion of SEQ ID NO:6, wherein said portion of SEQ ID NO:6 is the portion of SEQ ID NO:6 starting with geagaatggtgacgetaat (SEQ ID NO:3) and ending with ggcagtgttgagcggaaac (SEQ ID NO:4)~~ a portion of Kv3.4 mRNA found in Kv3.4a and absent in Kv3.4c, and wherein said siRNA is capable of inhibiting Kv3.4 expression in said cell, and wherein said cell is located in vitro or ex vivo.

5-9. (cancelled)

10. (previously presented) The method of claim 4, further comprising the step of transplanting said cell into a subject.

11-17. (cancelled).